

Name: \_\_\_\_\_

**ml1112paper: Solve by factoring (v11)**

1. Solve the equation

$$x^2 + 9x + 8 = 0$$

$$(x + 8)(x + 1) = 0$$

$$x = -1$$

$$x = -8$$

2. Solve the equation

$$x^2 - 11x + 30 = 0$$

$$(x - 6)(x - 5) = 0$$

$$x = 5$$

$$x = 6$$

3. Solve the equation

$$4x^2 - 4x - 9 = 3x^2 + 2x - 2$$

$$x^2 - 6x - 7 = 0$$

$$(x + 1)(x - 7) = 0$$

$$x = 7$$

$$x = -1$$

4. Solve the equation

$$8x^2 + 12x + 62 = 7x^2 - 4x - 1$$

$$x^2 + 16x + 63 = 0$$

$$(x + 9)(x + 7) = 0$$

$$x = -7$$

$$x = -9$$

5. Solve the equation

$$11x^2 + 16x + 5 = 0$$

$$(11x + 5)(x + 1) = 0$$

$$x = -1$$

$$x = \frac{-5}{11}$$

6. Solve the equation

$$11x^2 + 4x - 7 = 0$$

$$(11x - 7)(x + 1) = 0$$

$$x = -1$$

$$x = \frac{7}{11}$$

7. Solve the equation

$$10x^2 - 51x + 32 = 3x^2 - 3x - 4$$

$$7x^2 - 48x + 36 = 0$$

$$(7x - 6)(x - 6) = 0$$

$$x = 6$$

$$x = \frac{6}{7}$$

8. Solve the equation

$$10x^2 - 5x - 12 = 8x^2 + 2x + 3$$

$$2x^2 - 7x - 15 = 0$$

$$(2x + 3)(x - 5) = 0$$

$$x = 5$$

$$x = \frac{-3}{2}$$